

# Energy creates particles, the particles creates fields, and the fields creates interplay

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## Abstract

The contents of the article is mirrored in its title

Interconversion of mass and energy pursuant to the formula:

$$E = mc^2 \quad (1)$$

is the fundamental law of the nature and alone way of creation of a material world. From (1) particle mass is peer:

$$m = E/c^2 \quad (2).$$

For example, if the electron of atom of Hydrogenium at once passes from orbit Lyman in a ground state, the exuded energy 13.6 eV is transformed into a photon, mass which one:

$$m = h\nu/c^2 \quad (3).$$

It is the most widespread way of creation of particles from energy. At occluding a photon it, as the particle, fades and is transformed into energy. Naturally, that for creation of heavier particles the large energy is indispensable pursuant to (2).

Together with occurrence of a particle there are also four kinds of a field: gravitational (carrier which one is mass), electrostatic (carrier - electric charges of a particle). Here at once it is necessary to mark, that neutral particles does not exist. That we consider as a neutral particle really is structure with equal number of positive and negative electric charges (photon, neutron, neutral meson etc.). The creation of magnetic and gravidynamic field is a consequent of orbital motion of components of a particle with speed of light. Here I address attention of the reader to an appreciable error of official physics, which one considers, that at spacing interval from a particle to equal zero point the electrical field, for example, obtains infinite tensity, i.e. here there is «singularity». In the theory of fundamental particles of new physics is shown, that all they inside empty, i.e. inside particles a fields absent, as they absent inside a charged orb. Therefore any «singularity» does not exist. Thus, any field is inseparable from the material carrier of this field and interacts only with it. The carriers of other kinds of fields also can interact only with an one-type field and do not react at all to fields of other type. Any field represents of the special kind the substance, spread in space, with density, inversely proportional to a square of spacing interval from the carrier of a field. As the fields do not consist of particles, they have not mass and energy, therefore are diffused with indefinitely high speed. Besides in the given point of space can simultaneous exist infinite number of fields one or miscellaneous types, not hindering at all each other. It is the basis of a superposition of fields. To this it is necessary to add, that any field can not be distorted somehow. That you is observed, as the field distortion is a consequent of independent influencing of two or several fields. Similarly, we can not assert, looking on a parabolic trajectory of the thrown rock, that the gravitational field of the Earth was somehow distorted. So-called «electromagnetic field», which one the orthodoxes recalls at any friend case, from the point of view of new physics at all can not be called as a field and at its best represents a flow of photons if not to use imaginations about virtual particles. It is necessary to answer last problem: how the fields creates interplay? The answer to this problem was given in chapter 11.2.2 [1] here again there is a sense it shortly to repeat on an example electrostatic and gravitational field. The very simple mechanism of originating of interplays is consist, that the proper field influences only the carrier of the given field, augmenting or reducing near to its density of a field. All kinds of interplays become clear if to presume, that the electrostatic field aims to take away the carrier of this field in the miscellaneous sides, and the gravitational field aims far and wide to tighten the applicable carrier of a field. Because of

symmetrical operating the charges are not displaced anywhere, but if on the one hand density of a field will appear less or more, than with another, the carrier of a field starts to move to this or that side in full conformity with a law of universal gravitation or Coulomb's law. Here it is necessary to point out, that any field is direct on anything does not act, and influences only changing density of a field near to its carrier.

#### References:

- 1 <http://www.new-physics.narod.ru>